	PROBLEM SUMMARY	Sample Rating Trend	VIS DEBRIS
EXPERTISE -			
Machine Id 2126961			
Component <b>Rear Differential</b> Fluid			
VOLVO ( QTS)		Aug2023	

No relevant graphs to display

RECOMMENDATION	
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No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL		
Debris	scalar	*Visual	NONE	A MODER		

Customer Id: PERPRIPCA Sample No.: PCA0102666 Lab Number: 05958781 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**



Machine Id **2126961** Component **Rear Differential** Fluid **VOLVO (--- QTS)** 

# DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

Machine Age    mis    Client Info    0         Oil Agage    NiA          Sample Status    Info    N/A         WEAR METALS    method    Imit/base    current    history1    history2      Iron    ppm    ASTM 05185m    >500    287        Trainium    ppm    ASTM 05185m    >10    3        Silver    ppm    ASTM 05185m    >10    4        Copper    ppm    ASTM 05185m    >25    10        Vanadium    ppm    ASTM 05185m    >10    8        Adminum    ppm    ASTM 05185m    >10    8        Vanadium    ppm    ASTM 05185m    11         Barium    ppm    ASTM 05185m    11         Magnesum    pm    ASTM 05185m    11     <	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2					
Sample Date      Client Info      21 Aug 2023          Machine Age      mis      Client Info      0          Oil Age      mis      Client Info      0          Oil Changed      Client Info      N/A          Sample Status      T      T      ABNORMAL          WEAR METALS      method      limit/base      current      history1         Nickel      ppm      ASTM 05158n      >10      3          Nickel      ppm      ASTM 05158n      >10      4          Aluminum      ppm      ASTM 05158n      >25      10          Adminum      ppm      ASTM 05158n      >10      8          Adminum      ppm      ASTM 05158n      10      8          Adminum      ppm      ASTM 05158n      10      8          Adminum      ppm </td <td>Sample Number</td> <td></td> <td>Client Info</td> <td></td> <td>PCA0102666</td> <td></td> <td></td>	Sample Number		Client Info		PCA0102666							
Oil Age      mis      Client Info      0          Sample Status      Client Info      N/A          WEAR METALS      method      limitbase      current      history1      history2        Iron      ppm      ASTM 05185m      >500      287          Chromium      ppm      ASTM 05185m      >10      4          Nickel      ppm      ASTM 05185m      >10      4          Aluminum      ppm      ASTM 05185m      >25      10          Auminum      ppm      ASTM 05185m      >10      8          Auminum      ppm      ASTM 05185m      >10      8          Augentum      ppm      ASTM 05185m      10      8          Agentum      ppm      ASTM 05185m      11           Agentum      ppm      ASTM 05185m      11        -	Sample Date		Client Info		21 Aug 2023							
Oil Age      mis      Client Info      0          Sample Status      Client Info      N/A          WEAR METALS      method      limitbase      current      history1      history2        Iron      ppm      ASTM 05185m      >500      287          Chromium      ppm      ASTM 05185m      >10      4          Nickel      ppm      ASTM 05185m      >10      4          Aluminum      ppm      ASTM 05185m      >25      10          Auminum      ppm      ASTM 05185m      >10      8          Auminum      ppm      ASTM 05185m      >10      8          Augentum      ppm      ASTM 05185m      10      8          Agentum      ppm      ASTM 05185m      11           Agentum      ppm      ASTM 05185m      11        -	Machine Age	mls	Client Info		0							
Sample Status      method      Imilibase      current      history1      history2        Iron      ppm      ASTM D5185m      >500      287          Chromium      ppm      ASTM D5185m      >10      3          Nickel      ppm      ASTM D5185m      >10      4          Silver      ppm      ASTM D5185m      >25      2          Aluminum      ppm      ASTM D5185m      >25      10          Copper      ppm      ASTM D5185m      >25      10          Copper      ppm      ASTM D5185m      >25      10          Cadmium      ppm      ASTM D5185m      >10      8          ADDITIVES      method      limit/base      current      history1      history2        Barium      ppm      ASTM D5185m      11          ADDITIVES      method      limit/base      current      hi	Oil Age	mls	Client Info		0							
WEAR METALS      method      limit/base      current      history1      history2        Iron      ppm      ASTM D5185m      >500      287          Nickel      ppm      ASTM D5185m      >10      4          Nickel      ppm      ASTM D5185m      >10      4          Aluminum      ppm      ASTM D5185m      >25      2          Aluminum      ppm      ASTM D5185m      >25      10          Auminum      ppm      ASTM D5185m      >25      10          Auminum      ppm      ASTM D5185m      >10      8          Astm D5185m      >10      8            Astm D5185m      11             Astm D5185m      113             Magnaense      ppm      ASTM D5185m      113	Oil Changed		Client Info		N/A							
Iron      ppm      ASTM D5185m      >500      287          Chromium      ppm      ASTM D5185m      >10      3          Nickel      ppm      ASTM D5185m      >10      4          Silver      ppm      ASTM D5185m      >10           Aluminum      ppm      ASTM D5185m      >25      2          Auminum      ppm      ASTM D5185m      >25      10          Auminum      ppm      ASTM D5185m      >100      77          Copper      ppm      ASTM D5185m      >100           Actimum      ppm      ASTM D5185m      >10      8          Actimum      ppm      ASTM D5185m      112           Actimum      ppm      ASTM D5185m      113           Magnessum      ppm      ASTM D5185m <t< td=""><td>Sample Status</td><td></td><td></td><td></td><td>ABNORMAL</td><td></td><td></td></t<>	Sample Status				ABNORMAL							
Chromium      ppm      ASTM D5185m      >10      3          Nickel      ppm      ASTM D5185m      <10      4          Silver      ppm      ASTM D5185m      0          Aluminum      ppm      ASTM D5185m      >25      2          Lead      ppm      ASTM D5185m      >25      10          Copper      ppm      ASTM D5185m      >100      77          Vanadium      ppm      ASTM D5185m      >100	WEAR METAL	S	method	limit/base	current	history1	history2					
Nickel      ppm      ASTM D5185m      >10      4          Titanium      ppm      ASTM D5185m      0          Silver      ppm      ASTM D5185m      >25      2          Lead      ppm      ASTM D5185m      >25      10          Copper      ppm      ASTM D5185m      >10      8          Yanadium      ppm      ASTM D5185m      >10      8	Iron	ppm	ASTM D5185m	>500	287							
Titanium      ppm      ASTM D5185m      <1          Silver      ppm      ASTM D5185m      >25      2          Aluminum      ppm      ASTM D5185m      >25      2          Lead      ppm      ASTM D5185m      >25      10          Copper      ppm      ASTM D5185m      >10      8          Copper      ppm      ASTM D5185m      >10      8          Cadmium      ppm      ASTM D5185m      >10      8          ADDITIVES      method      limit/base      current      history1      history2        Boron      ppm      ASTM D5185m      11          Magnesium      ppm      ASTM D5185m      113          Magnesium      ppm      ASTM D5185m      1018          Magnesium      ppm      ASTM D5185m      24          Sulfur<	Chromium	ppm	ASTM D5185m	>10	3							
Silver      ppm      ASTM D5185m      0          Aluminum      ppm      ASTM D5185m      >25      2          Lead      ppm      ASTM D5185m      >25      10          Copper      ppm      ASTM D5185m      >100      8          Vanadium      ppm      ASTM D5185m      10      8          ADDITIVES      method      limit/base      current      history1      history2        Boron      ppm      ASTM D5185m      122          Malganese      ppm      ASTM D5185m      <11	Nickel	ppm	ASTM D5185m	>10	4							
Aluminum      ppm      ASTM D5185m      >25      2          Lead      ppm      ASTM D5185m      >25      10          Copper      ppm      ASTM D5185m      >100      77          Yanadium      ppm      ASTM D5185m      100           Cadmium      ppm      ASTM D5185m      0           ADDITIVES      method      limit/base      current      history1      history2        Boron      ppm      ASTM D5185m      122          Molybdenum      ppm      ASTM D5185m      <1	Titanium	ppm	ASTM D5185m		<1							
Laad      ppm      ASTM D5185m      >25      10          Copper      ppm      ASTM D5185m      >100      77          Tin      ppm      ASTM D5185m      >10      8          Qanadium      ppm      ASTM D5185m      0          ADDITIVES      method      limit/base      current      history1      history2        Boron      ppm      ASTM D5185m      1          Maganese      ppm      ASTM D5185m      -1          Maganese      ppm      ASTM D5185m      -1          Galcium      ppm      ASTM D5185m      -1          Calcium      ppm      ASTM D5185m      -1          Zinc      ppm      ASTM D5185m      24          Sulfur      ppm      ASTM D5185m      >20      3          VISUAL      method      limit/base <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td></td> <td></td>	Silver	ppm	ASTM D5185m		0							
Copper      ppm      ASTM D5185m      >100      77          Tin      ppm      ASTM D5185m      >10      8          Vanadium      ppm      ASTM D5185m      0          ADDITIVES      method      limit/base      current      history1      history2        Boron      ppm      ASTM D5185m      122          Molybdenum      ppm      ASTM D5185m      13          Manganese      ppm      ASTM D5185m      <13	Aluminum	ppm	ASTM D5185m	>25	2							
Tin    ppm    ASTM D5185m    >10    8        Vanadium    ppm    ASTM D5185m    0        ADDITIVES    method    limit/base    current    history1    history2      Boron    ppm    ASTM D5185m    122        ADDITIVES    method    limit/base    current    history1    nistory2      Barium    ppm    ASTM D5185m    122        Magnese    ppm    ASTM D5185m    1        Magnesium    ppm    ASTM D5185m    13        Calcium    ppm    ASTM D5185m    1018        Magnesium    ppm    ASTM D5185m    1018        Colatium    ppm    ASTM D5185m    23961        Stifur    ppm    ASTM D5185m    >20    3        Sodium    ppm    ASTM D5185m    >20    3        Stotype    AS	Lead	ppm	ASTM D5185m	>25	10							
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Barium      ppm      ASTM D5185m      1          Molybdenum      ppm      ASTM D5185m      <1	ADDITIVES		method	limit/base	current	history1	history2					
Molybdenum      ppm      ASTM D5185m      <1         Marganese      ppm      ASTM D5185m      13          Magnesium      ppm      ASTM D5185m      <1	Boron	ppm	ASTM D5185m		122							
Marganese      ppm      ASTM D5185m      13          Magnesium      ppm      ASTM D5185m      <1	Barium	ppm	ASTM D5185m		1							
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CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>7544SodiumppmASTM D5185m6PotassiumppmASTM D5185m>203VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONEMODERSand/Dirtscalar*VisualNONEMODERAppearancescalar*VisualNORMLNORMLGoorscalar*VisualNORMLNORMLFree Waterscalar*VisualNORMLNORMLFullD PROPERTIESmethodlimit/basecurrenthistory1history2Visc @ 40°CcStASTM D44594.1	Zinc	ppm	ASTM D5185m		24							
SiliconppmASTM D5185m>7544SodiumppmASTM D5185m6PotassiumppmASTM D5185m>203VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONEMODERDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLFree Waterscalar*VisualNORMLNEGFLUID PROPERTIESmethodlimit/basecurrenthistory1history2Visc @ 40°CcStASTM D44594.1	Sulfur	ppm	ASTM D5185m		23961							
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PotassiumppmASTM D5185m>203VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLFree Waterscalar*Visual>.2NEGFLUID PROPERTIESmethodlimit/basecurrenthistory1history2Visc @ 40°CcStASTM D44594.1	Silicon	ppm	ASTM D5185m	>75	44							
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Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONEMONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>.2NEGFree Waterscalar*VisualNCNEGFLUID PROPERTIESmethodlimit/basecurrenthistory1history2Visc @ 40°CcStASTM D44594.1	VISUAL		method	limit/base	current	history1	history2					
Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>.2NEGFree Waterscalar*Visual.2NEGFLUID PROPERTIESmethodlimit/basecurrenthistory1history2Visc @ 40°CcStASTM D44594.1	White Metal	scalar	*Visual	NONE	NONE							
Siltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>.2NEGFree Waterscalar*Visual.2NEGFLUID PROPERTIESmethodlimit/basecurrenthistory1history2Visc @ 40°CcStASTM D44594.1	Yellow Metal	scalar	*Visual	NONE	NONE							
Debrisscalar*VisualNONE<MODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>.2NEGFree Waterscalar*Visual>.2NEGFLUID PROPERTIESmethodlimit/basecurrenthistory1history2Visc @ 40°CcStASTM D44594.1	Precipitate	scalar	*Visual	NONE	NONE							
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>.2NEGFree Waterscalar*VisualImit/basecurrenthistory1history2Visc @ 40°CcStASTM D44594.1	Silt	scalar	*Visual	NONE	NONE							
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>.2NEGFree Waterscalar*VisualImit/baseCurrenthistory1history2Visc @ 40°CcStASTM D44594.1	Debris	scalar	*Visual	NONE								
Odor  scalar  *Visual  NORML  NORML     Emulsified Water  scalar  *Visual  >.2  NEG     Free Water  scalar  *Visual  NEG      FLUID PROPERTIES  method  limit/base  current  history1  history2    Visc @ 40°C  cSt  ASTM D445  94.1	Sand/Dirt	scalar	*Visual	NONE	NONE							
Emulsified Water    scalar    *Visual    >.2    NEG        Free Water    scalar    *Visual    Imit/base    current    history1    history2      FLUID PROPERTIES    method    limit/base    current    history1    history2      Visc @ 40°C    cSt    ASTM D445    94.1	Appearance	scalar	*Visual	NORML	NORML							
Free Water  scalar  *Visual  NEG     FLUID PROPERTIES  method  limit/base  current  history1  history2    Visc @ 40°C  cSt  ASTM D445  94.1	Odor	scalar	*Visual	NORML	NORML							
FLUID PROPERTIES      method      limit/base      current      history1      history2        Visc @ 40°C      cSt      ASTM D445      94.1	Emulsified Water	scalar	*Visual	>.2	NEG							
Visc @ 40°C cSt ASTM D445 94.1	Free Water	scalar	*Visual		NEG							
-	FLUID PROPE	RTIES	method	limit/base	current	history1	history2					
253:21) Rev: 1 Contact/Location: MICHAEL DAVIS - PERPRIPCA	Visc @ 40°C 7:53:21) Rev: 1	cSt	ASTM D445	_								

Report Id: PERPRIPCA [WUSCAR] 05958781 (Generated: 09/30/2023 07:53:21) Rev: 1

Contact/Location: MICHAEL DAVIS - PERPRIPCA



# **OIL ANALYSIS REPORT**

