

OIL ANALYSIS REPORT

Sample Rating Trend NORMAL

Machine Id **155-12**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

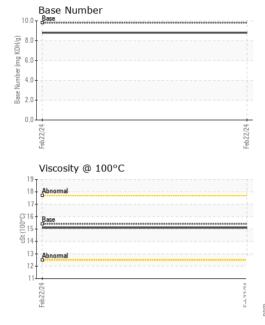
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Feb 2024				
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0089588		
Sample Date		Client Info		22 Feb 2024		
Machine Age	mls	Client Info		560915		
Oil Age	mls	Client Info		10915		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0		
Vater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	70		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	1		
- itanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	4		
.ead	ppm	ASTM D5185m	>40	4		
Copper	ppm	ASTM D5185m	>330	9		
īn	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	111		
Manganese	ppm	ASTM D5185m	0	<1		
/lagnesium	ppm	ASTM D5185m	1010	1668		
Calcium	ppm	ASTM D5185m	1070	1759		
Phosphorus	ppm	ASTM D5185m	1150	1738		
inc .	ppm	ASTM D5185m	1270	2072		
Sulfur	ppm	ASTM D5185m	2060	5108		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7		
Base Number (BN)		ASTM D2896		8.8		
- LOC (LIN)	mg Normy	. 10 TWI DE000	0.0	0.0		



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I LOID I HOI L	ППСО	motriou	111111111111111111111111111111111111111	3C Current Instory	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	15.1	
GRAPHS					
Iron (ppm)				Lead (ppm)	
Severe				80 Severe	
Abnormal				60 Abnormal	
				+0 + 0	
				20	
Feb22/24			Feb22/24	reb22/24	
			윤	_	
Aluminum (ppm)				Chromium (ppm)	
Severe			-	40 + Severe	
Abnormal				Abnomal	
1				10	
24			24	0 45	
Feb22/24			Feb22/24	Feb22/24	
Copper (ppm)				Silicon (ppm)	
Severe Abnormal				80 Severe	
)+				60	
				E 40 Abnormal	
)				0	
Feb22/24			Feb22/24	reb22/24	
			윤	型 Base Number	
Viscosity @ 100 C				10 0 - Base	
Abnormal				8.0	
Base				6.0 +	
Abnormal				2.0	
74				0.0	
Feb22/24			Feb22/24	Feb22/24	





Certificate L2367

Laboratory Sample No.

Lab Number : 06112549 Unique Number : 10916046

: PCA0089588

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 08 Mar 2024 : 12 Mar 2024 - Jonathan Hester

: 08 Mar 2024

Test Package : MOB 1 (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

GE MARSHALL EXCAVATION

1351 JOLIET RD VALPARAISO, IN

US 46385 Contact: MARK STEFFEL

mark.steffel@gemarshall.com

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)