

ISUZU 189629

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Component Diesel Engine

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

📥 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is an abnormal amount of solids and carbon present in the oil.

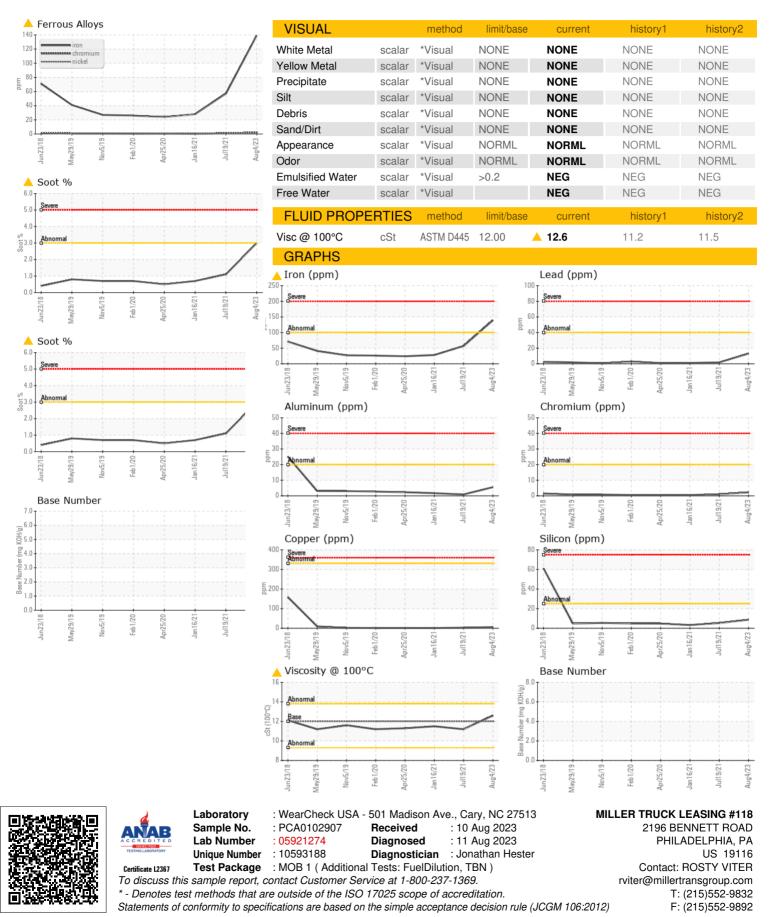
Fluid Condition

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102907	PCA0033429	PCA0033439
Sample Date		Client Info		04 Aug 2023	19 Jul 2021	16 Jan 2021
Machine Age	mls	Client Info		114530	72000	61814
Oil Age	mls	Client Info		114530	6000	8000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	A 139	57	28
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		5	1	4
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	<1	2
Lead	ppm	ASTM D5185m	>40	13	2	1
Copper	ppm	ASTM D5185m	>330	6	3	1
Tin	ppm	ASTM D5185m	>15	2	1	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
		methou	iiiiii/base	Current	Thistory I	motoryz
	ppm	ASTM D5185m	2	3	13	10
Boron	ppm ppm					
Boron Barium		ASTM D5185m	2	3	13	10
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m	2 0	3 2	13 0	10 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	3 2 61	13 0 57	10 0 55
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	3 2 61 1	13 0 57 <1	10 0 55 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	3 2 61 1 898	13 0 57 <1 790	10 0 55 <1 885
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	3 2 61 1 898 1261	13 0 57 <1 790 1412	10 0 55 <1 885 1147
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995	3 2 61 1 898 1261 996	13 0 57 <1 790 1412 1001	10 0 55 <1 885 1147 1052
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180	3 2 61 1 898 1261 996 1263	13 0 57 <1 790 1412 1001 1190	10 0 55 <1 885 1147 1052 1251
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	3 2 61 1 898 1261 996 1263 3210	13 0 57 <1 790 1412 1001 1190 2658	10 0 55 <1 885 1147 1052 1251 2772
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	3 2 61 1 898 1261 996 1263 3210 current	13 0 57 <1 790 1412 1001 1190 2658 history1	10 0 55 <1 885 1147 1052 1251 2772 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2 0 50 950 1050 995 1180 2600	3 2 61 1 898 1261 996 1263 3210 current 9	13 0 57 <1 790 1412 1001 1190 2658 history1 5	10 0 55 <1 885 1147 1052 1251 2772 history2 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	3 2 61 1 898 1261 996 1263 3210 current 9 2	13 0 57 <1 790 1412 1001 1190 2658 history1 5 2	10 0 55 <1 885 1147 1052 1251 2772 history2 3 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	3 2 61 1 898 1261 996 1263 3210 current 9 2 2 3	13 0 57 <1 790 1412 1001 1190 2658 history1 5 2 1	10 0 55 <1 885 1147 1052 1251 2772 history2 3 2 2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium Fuel INFRA-RED	ppm	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25 >20 >5	3 2 61 1 898 1261 996 1263 3210 current 9 2 3 3 < 1.0	13 0 57 <1 790 1412 1001 1190 2658 history1 5 2 1 5 2 1 <1.0	10 0 55 <1 885 1147 1052 1251 2772 history2 3 2 <1 <1.0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 Imit/base >25 >20 >5 Imit/base >3	3 2 61 1 898 1261 996 1263 3210 current 9 2 3 <1.0 current ¥	13 0 57 <1 790 1412 1001 1190 2658 history1 5 2 1 5 2 1 <1.0 history1	10 0 55 <1 885 1147 1052 1251 2772 history2 3 2 <1 <1.0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm i ppm i % i	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 Imit/base >25 >20 >5 Imit/base >3	3 2 61 1 898 1261 996 1263 3210 current 9 2 3 3 <1.0 current	13 0 57 <1 790 1412 1001 1190 2658 history1 5 2 1 5 2 1 <1.0 history1 1.1	10 0 55 <1 885 1147 1052 1251 2772 history2 3 2 2 <1 <10 <1.0 history2 0.7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20 limit/base >3 >20	3 2 61 1 898 1261 996 1263 3210 current 9 2 3 <1.0 current 3 19.7	13 0 57 <1 790 1412 1001 1190 2658 history1 5 2 1 <1.0 history1 1.1 1.1 13.4	10 0 55 <1 885 1147 1052 1251 2772 history2 3 2 2 <1 <1.0 history2 0.7 10.7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 Iimit/base >25 >20 >5 Iimit/base >3 >20 >3 >20	3 2 61 1 898 1261 996 1263 3210 current 9 2 3 <1.0 current ▲ 3 19.7 31.6	13 0 57 <1 790 1412 1001 1190 2658 history1 5 2 1 <1.0 history1 1.1 1.3.4 23.1	10 0 55 <1 885 1147 1052 1251 2772 history2 3 2 <1 <1.0 history2 0.7 10.7 20.7



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Contact/Location: ROSTY VITER - MILPHINE